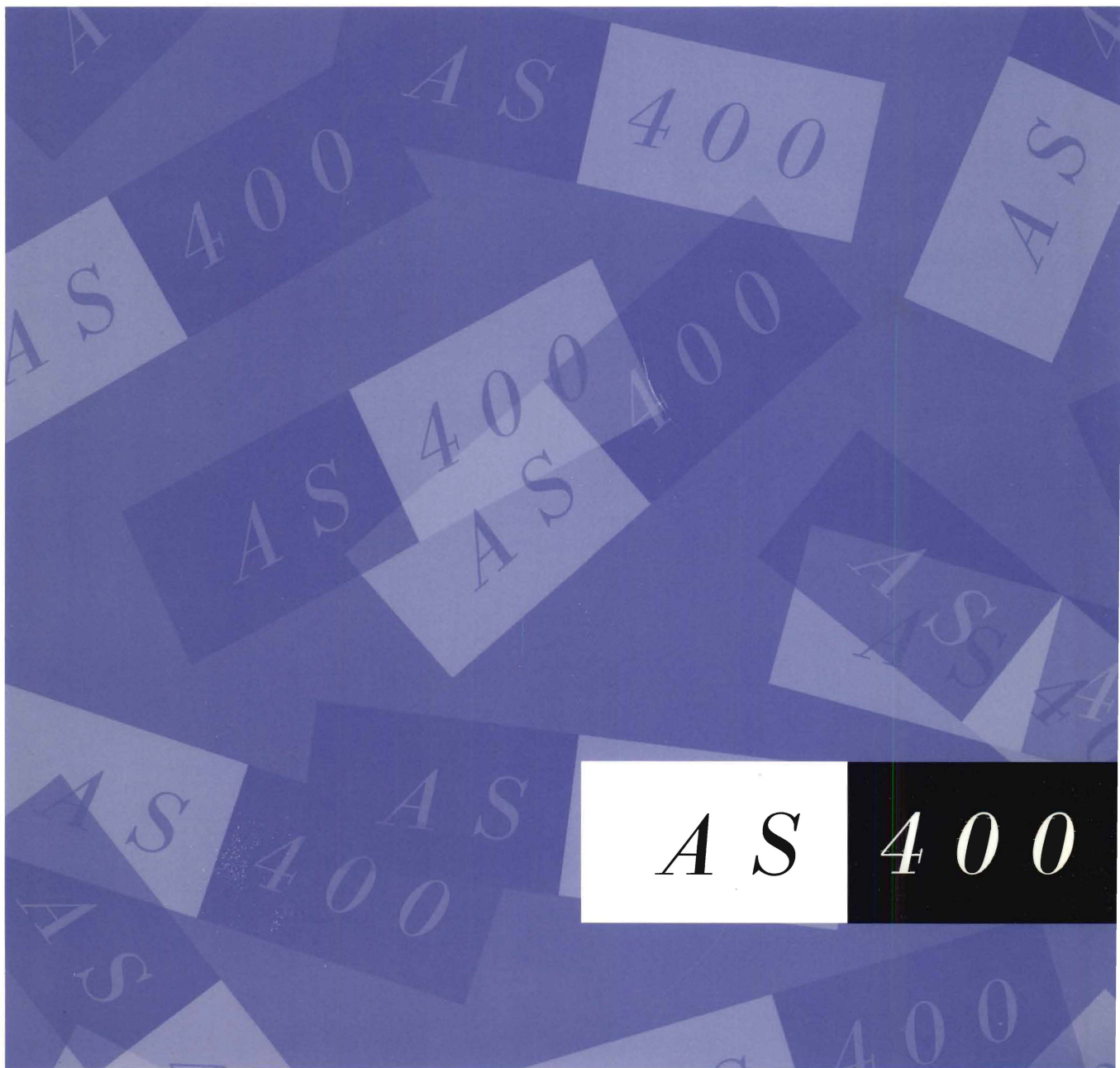


IBM

**AS/400
9401 Installation –
Models P03 and 10S**







AS/400

SA41-3141-00

9401 Installation - Models P03 and 10S

Version 3

Take Note!

Before using this information and the product it supports, be sure to read the general information under "Notices" on page v.

First Edition (January 1995)

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Each safety notice contains a reference number (RSFTxxxx). To see if the safety notice is available in your language, refer to the reference number in the *Safety Information*, SA41-3139.

Danger Notices

A danger notice calls attention to a situation that is potentially lethal or extremely hazardous to people.

DANGER

To prevent a possible electrical shock during an electrical storm, do not connect or disconnect cables or station protectors for communications lines, display stations, printers, or telephones. (RSFTD003)

DANGER

To prevent a possible electrical shock from touching two surfaces with different electrical grounds, use one hand, when possible, to connect or disconnect signal cables. (RSFTD004)

DANGER

An electrical outlet that is not correctly wired could place hazardous voltage on metal parts of the system or the products that attach to the system. It is the customer's responsibility to ensure that the outlet is correctly wired and grounded to prevent an electrical shock.

(RSFTD201)

DANGER

To prevent a possible electrical shock when installing the system, ensure that the power cords for all devices are unplugged before installing signal cables. *(RSFTD202)*

DANGER

To prevent a possible electrical shock when adding or removing any devices to or from the system, ensure that the power cords for those devices are unplugged before the signal cables are connected or disconnected. If possible, disconnect all power cords from the existing system before you add or remove a device. *(RSFTD203)*

Caution Notices

A caution notice calls attention to a situation that is potentially hazardous to people because of some existing condition.

CAUTION:

Do not plug the power cable into the power outlet at this time. *(RSFTC075)*

CAUTION:

Telecommunications Statement: This unit contains over-voltage circuits between the ac power outlet and the unit. These circuits meet the standard limits described in International Electrical Commission (IEC) 664, installation category II. It is the customer's responsibility to ensure that the power outlet meets the standards of IEC 664, installation category II. *(RSFTC214)*

Warning Notices

A warning notice indicates the possibility of damage to a program, device, system, or data.

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This unit contains recyclable materials. The unit should be recycled where facilities are available and according to local regulations. In some areas IBM will provide a product take-back program that ensures proper handling of the product. Contact your IBM representative for more information.

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This unit may contain batteries that are accessible to certified service personnel only. Before disposing the unit, these batteries must be removed and discarded or recycled according to local regulations. Contact your IBM representative to remove these batteries.

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This system contains a laser product called the IBM Optical Link Card (OLC). In the U.S., the OLC is certified by IBM as a Class I laser product that conforms to the requirements contained in the Department of Health and Human Services (DHHS) regulation 21 CFR Subchapter J. Internationally, the OLC is certified as a Class 1 laser product that conforms to the requirements contained in the International Electrotechnical Commission (IEC) standard 825 (1984), the Verband Deutscher Elektrotechniker (VDE) standard 0837 (1986), and the CENELEC (European Committee for Electrotechnical Standardization) Harmonization Document HD 482 S1 (1989). The German testing institute VDE assigned IBM a certificate of conformity to DIN IEC 825/VDE 0837/02.86 and CENELEC HD 482 S1/03.88; the certificate registration number is either 3642 or 3886 (determined by the manufacturing site). In addition, Statens Provningsanstalt (Swedish National Testing Institute) tested and approved the OLC for use in Sweden as a Class 1 laser product and assigned IBM the approval number SP LA 89:184.

The IBM OLC is a dual port card that internally contains two semiconductor laser diodes (one for each port). Both of the laser diodes are of the gallium aluminum arsenide (GaAlAs) type, emitting in the wavelength range of 770 to 800 nanometers. The discrete laser diodes are Class 3B laser products with a rating of 5.0 milliwatts peak power. Once they are assembled into the OLC, the automatic laser control safety system prevents laser emissions from being more than Class 1 limits during both operation and service. There are no user maintenance operations or adjustments to be performed on the IBM OLC. Class 1 laser products are not considered to be hazardous.

The IBM OLC is designed and certified for use in applications with point-to-point optical links only. Use of the product with multiple input or multiple output links (for example, star couplers) is not compatible with its design and function. In addition, the IBM OLC must only be connected to another IBM OLC or a compatible laser product that contains the open fiber link detection and laser control safety system used in the IBM OLC. These are requirements for correct operation of the IBM OLC in any optical fiber communication system. Failure to follow these restrictions may result in the system not operating correctly and points of access that emit laser radiation above the Class 1 limit specified by IEC 825 (1984).

(RSFTC211)

Electronic Emission Notices

The following statement applies to this IBM product. The statement for other IBM products intended for use with this product will appear in their accompanying manuals.

Federal Communications Commission (FCC) Statement

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult an IBM authorized dealer or service representative for help.

Properly shielded and grounded cables and connectors must be used in order to meet FCC emission limits. Proper cables and connectors are available from IBM authorized dealers. IBM is not responsible for any radio or television interference caused by using other than recommended cables and connectors or by unauthorized changes or modifications to this equipment. Unauthorized changes or modifications could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Canadian Department of Communications Compliance Statement

This equipment does not exceed Class B limits per radio noise emissions for digital apparatus, set out in the Radio Interference Regulation of the Canadian Department of Communications.

Avis de conformité aux normes du ministère des Communications du Canada

Cet équipement ne dépasse pas les limites de Classe B d'émission de bruits radioélectriques pour les appareils numériques, telles que prescrites par le Règlement sur le brouillage radioélectrique établi par le ministère des Communications du Canada.

European Community Compliance Statement

This product is in conformity with the protection requirements of EC Council Directive 89/336/EEC on the approximation of the laws of the Member States relating to electromagnetic compatibility. IBM cannot accept responsibility for any failure to satisfy the protection requirements resulting from a non-recommended modification of the product, including the fitting of non-IBM option cards.

This product has been tested and found to comply with the limits for Class B Information Technology Equipment according to CISPR 22 / European Standard EN 55022. The limits for Class B equipment were derived for typical residential environments to provide reasonable protection against interference with licensed communication devices.

Properly shielded and grounded cables and connectors (IBM part number 21H1955 or its equivalent) must be used in order to reduce the potential for causing interference to radio and TV communications and to other electrical or electronic equipment. Such cables and connectors are available from IBM authorized dealers. IBM cannot accept responsibility for an interference caused by using other than recommended cables and connectors.

Germany Only: This product is in conformity with the EN55022 class B emission limits.

Japanese Voluntary Control Council for Interference (VCCI) Statement

This equipment is Class 2 Equipment (information equipment to be used in and around residential districts) which is in conformance with the standard set by Voluntary Control for Interference by Data Processing Equipment and Electronic Office Machines (VCCI) with an aim to prevent radio interference in residential districts.

This equipment could cause interference to reception when used in proximity to radio and television receivers.

Please handle the equipment properly according to the instruction manual.

Korean Government Ministry of Communication (MOC) Statement

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SNA•ps	Wall Data Incorporated
Windows	Microsoft Corporation



Chapter 1. Overview

About This Book

Each chapter of this book contains installation instructions for the 9401 System Unit and the attaching devices. Follow the sequence of the chapters, beginning with Chapter 1.

Note: You may be instructed to skip a chapter if the information does not relate to your system.

You may need to refer to the following publications for more specific information. For a complete list of AS/400 books, see the *Publications Reference* information, SC41-3003.

- *ASCII Work Station Reference*, SA41-3130
- *Client Access/400 for DOS Ext Memory Setup*, SC41-3500
- *Client Access/400 for DOS Ext Memory Setup (DBCS)*, SC41-3502
- *Communications Configuration*, SC41-3401
- *Local Device Configuration*, SC41-3121
- *IBM 5250 Emulation PCMCIA Adapter Installation and Test Instructions*, G571-0263.
- *Physical Planning Summary*, SX41-3108
- *Software Installation*, SC41-3120
- *System Startup and Problem Handling*, SC41-3206

System Operating Conditions

The operation and reliability of the 9401 can be adversely affected by exposure to extreme temperature conditions such as those that might develop within a vehicle. In addition, if the machine is moved between places with very different temperature and humidity levels, condensation can build up that can cause damage to the equipment.

When traveling, sufficient time should be allowed for equipment to adjust to the environmental changes before unpacking or connecting ac power. Failure to permit sufficient time for the 9401 to acclimate constitutes system misuse and will void the warranty.

Airport Security

The 9401 System Unit can pass through most X-ray equipment used to inspect carry-on luggage in airports. However, magnetic inspection equipment may damage components or cause loss of magnetically stored data including software. If you are not sure if the magnetic inspection equipment is safe for computers, ask the operator.

Use the following procedure if a manual inspection is requested and it is necessary to power on the 9401 system:

1. Unpack the 9401 unit and its power cord.
2. Insert the power cord in its socket at the rear of the system.
3. Plug the other end of the power cord into an electrical outlet.
4. Open the front cover to show that the Function/Data display lights.

An IPL should not be necessary to complete the inspection. However, if an IPL is required, a console display must be attached to the 9401 System Unit. After approximately 20 minutes, the processor activity light on the control panel indicates that the IPL is complete. Unplugging or powering off the system before the IPL is complete may cause the next IPL to take more time to complete.



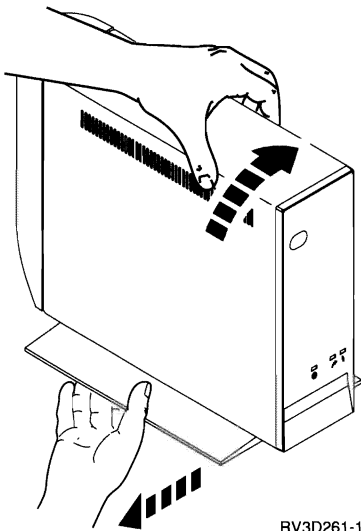
Chapter 2. Prepare to Install the 9401 System Unit

This chapter contains instructions on how to prepare your system for installation.

1 Unpack the 9401 System Unit.

2 Extend the 9401 System Unit stabilizer feet.

- a. Place the 9401 System Unit in a vertical position on a flat surface. Do not place the unit on the floor.
- b. With one hand, grip the top of the unit and carefully tilt it to one side.
- c. With your other hand, grip the foot in the center.
- d. Pull the foot away from the unit.
- e. Pull the foot up to lock in place.
- f. Tilt the unit to the other side and repeat this procedure for the other foot.

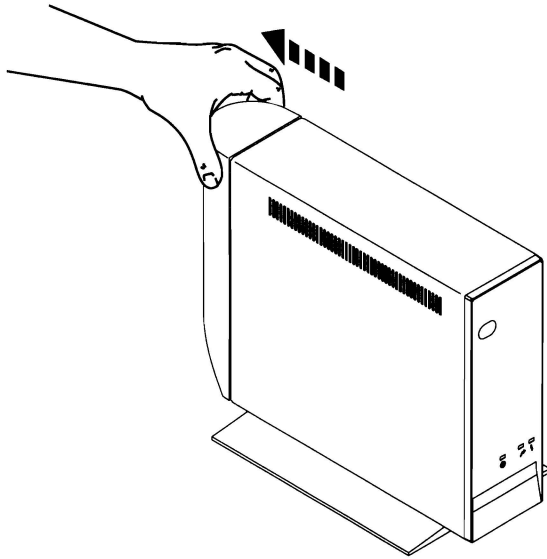


RV3D261-1

Note: The 9401 unit cannot be placed in the (optional) carrying case with the stabilizer feet extended.

3 Place the 9401 System Unit where you plan to install it.

4 Remove the back cover of the system unit (if it is installed).

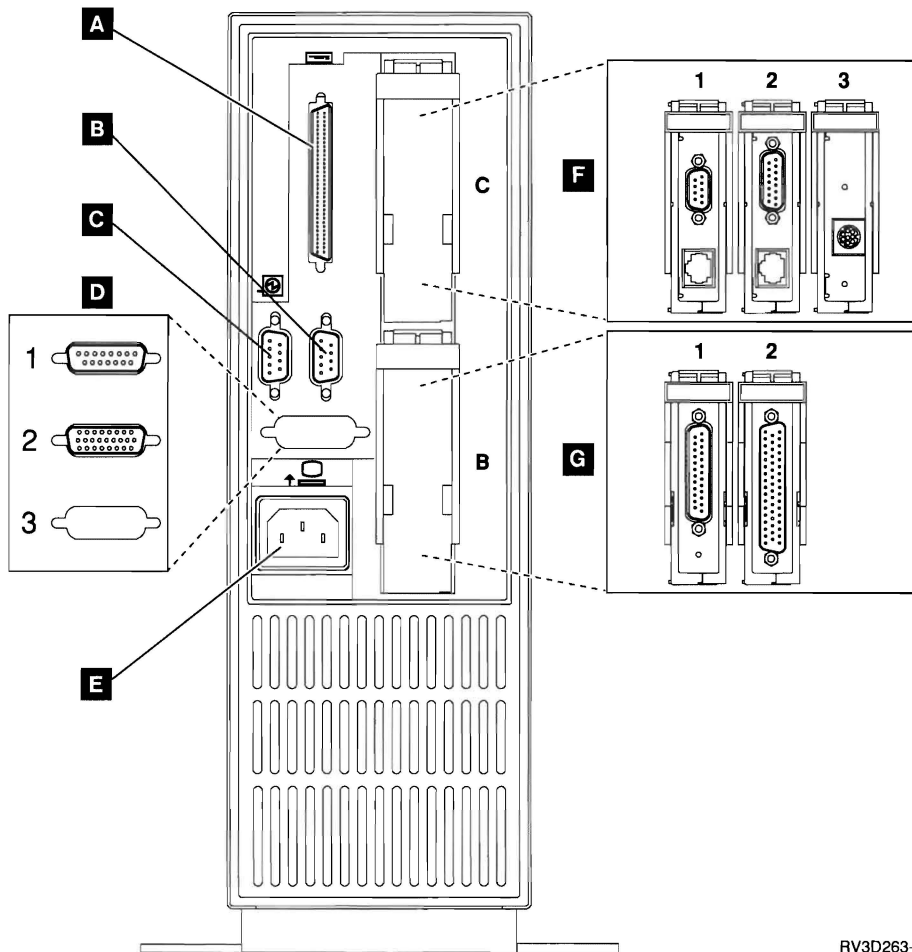


RV3D262-1

- a. Grip the upper corners of the cover and pull away from the unit.
- b. When the top clips release, lower the cover until the bottom clips clear the slots of the system unit.
- c. Set the cover out of the way.

Note: The 9401 unit cannot be placed in the (optional) carrying case with the back cover installed.

5 Identify the cable connectors.



RV3D263-1

Figure 2-1. Card Locations and Connectors

The following connectors are located on the back of the 9401 System Unit.

A Small computer system interface (SCSI) connector

Note: A SCSI terminator may be attached to the SCSI connector.

B Manufacturing interface connector

C Uninterruptible power supply connector

D Workstation attachment connector

Note: Use this information to identify the system type - twinaxial, ASCII, or Client Access/400 Console.

1 Twinaxial workstation connector

2 ASCII workstation connector

3 No connector (indicates Client Access/400 Console)

E Power cord connector

F Adapter card position

1 Token-ring card (type 9175)

2 Ethernet card (type 9174)

3 Workstation adapter card (type 6054)

G Communications adapter position

- 1 Single line card (type 2612)
- 2 Double line card (type 2609)

Note: If necessary, attach the appropriate adapter to the cable for installation.

6 Connect the ac power cord to the back of the 9401 System Unit (see Figure 2-1 on page 2-3).

Note: Do not plug the power cord into the electrical outlet. You will be instructed when to provide ac power.

7 Control panel locations:

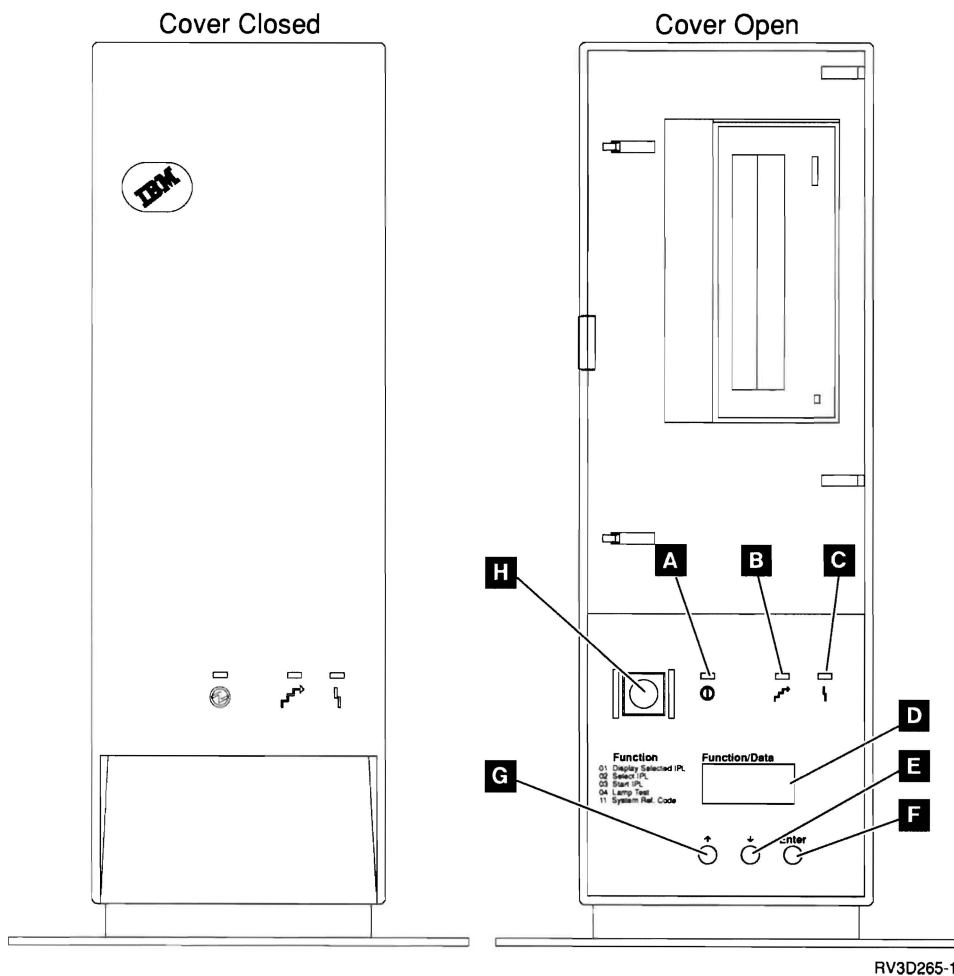


Figure 2-2. Control Panel Locations

A Power On Light: Lights when there is power to the 9401.

Note: The Power On light blinks while the system is powering on and while the system is powering off from Manual mode.

B Processor Active Light: Blinks when programs are running.

C System Attention Light: Lights when the system requires attention from the operator or service representative.

D Function/Data Display: Displays function codes, system reference codes (SRCs), and other information from the processing unit and the control panel.

E Down Pushbutton (↓): Use to decrease the number shown in the Function/Data display.

F Enter Pushbutton: Use to send function information shown in the Function/Data display to the processing unit.

G Up Pushbutton (↑): Use to increase the number shown in the Function/Data display.

H Power Pushbutton: Use to power on or power off the 9401 System Unit.

Note: To select a function number, press the Up (↑) or Down (↓) pushbutton on the control panel. To activate the function, press Enter on the control panel while the desired function number is displayed.



Chapter 3. Set Up the System Console

Use the information in this chapter to assist in identifying and setting up the system console.

Depending on the type of workstation attachment connector (see Figure 2-1 on page 2-3, **D**), the system console can be one of the following:

- **Twinaxial workstation**

The console may be one of the following:

- Nonprogrammable workstation (for example, an IBM 3196 or 3197)

Go to “Twinaxial Nonprogrammable Workstation as the System Console” on page 3-2.

- IBM ThinkPad* or similar non-IBM device with a 5250 Emulation PCMCIA adapter

Go to “IBM ThinkPad-Twinaxial as the System Console” on page 3-7.

Note: A DOS, Windows**, OS/2 or Client Access/400 5250 emulation program, should be used to interface with the 9401 System Unit.

- IBM or IBM-compatible personal computer with a 5250 Emulation card

Go to “Personal Computer as the System Console” on page 3-6.

Note: A DOS, Windows, OS/2 or Client Access/400 5250 emulation program, should be used to interface with the 9401 System Unit.

- **ASCII workstation**

The console may be one of the following:

- Nonprogrammable workstation (for example, an IBM 3151 or 3161)

Go to “ASCII Nonprogrammable Workstation as the System Console” on page 3-3.

- IBM ThinkPad (or similar non-IBM device) or IBM-compatible personal computer with a serial connection capable of line speeds ranging from 1200 to 38400 bps

Go to “Personal Computer Attached as an ASCII System Console” on page 3-9.

Note: A DOS ASCII terminal emulation or Client Access/400 program should be used to interface with the 9401 System Unit

- **Client Access/400 Console**

The console is the following:

- IBM ThinkPad (or similar non-IBM device) or IBM-compatible personal computer with a serial connection capable of a line speed of 9600 bps

Go to “Personal Computer as the Client Access/400 System Console” on page 3-11.

Notes:

1. Microsoft Windows** 3.1 or OS/2 2.0, along with Personal Communications 5250 (part of the Client Access/400 product), should be used to interface with the 9401 System Unit.
2. Client Access/400 Console provides a display emulation. It does not provide any other Client Access/400 function. If other Client Access functions (shared folders, virtual print, and so on) are needed, a local area network (LAN) card must be installed in the personal computer.

- **Programmable Workstation Local Attachment for Macintosh****

The console is the following:

- Macintosh computer running the SNA•ps** 5250 Version 1.2 application that uses the LocalTalk** protocol

Go to "Macintosh Workstation as the System Console" on page 3-4.

Twinaxial Nonprogrammable Workstation as the System Console

If you have a twinaxial workstation as the system console, perform the following steps:

- 1** Prepare the twinaxial workstation using the device information.

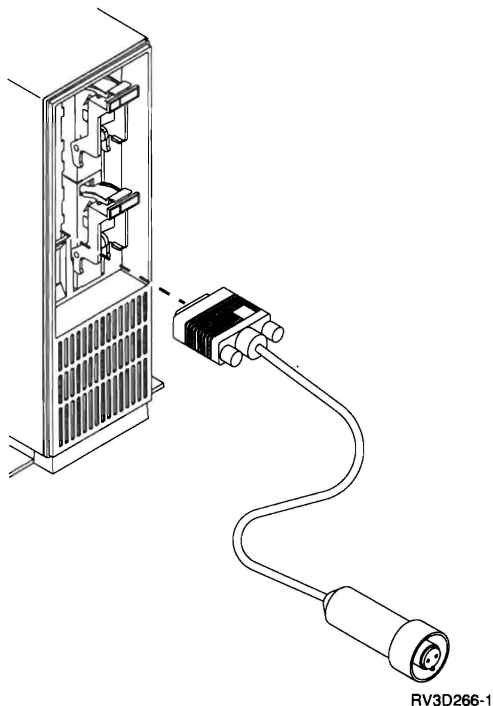
Notes:

- a. Be sure the workstation address is set to zero (0).
- b. Verify that the cable is labeled at both ends.

- 2** Ensure that the workstation power cord is not plugged in the ac outlet.

- 3** Ensure that the twinaxial workstation cable is connected at the workstation.

- 4** Install the system-unit end of the twinaxial attachment cable to the twinaxial workstation connector on the back of the 9401 System Unit.



- 5** Connect the twinaxial attachment cable to the twinaxial cable that is connected to the workstation.

Note: If the twinaxial attachment cable has two ports available, connect the twinaxial workstation cable to port 0.

- 6** Go to Chapter 4, “Connect the Cable and Modem for Electronic Customer Support” on page 4-1.
This ends the procedure.

ASCII Nonprogrammable Workstation as the System Console

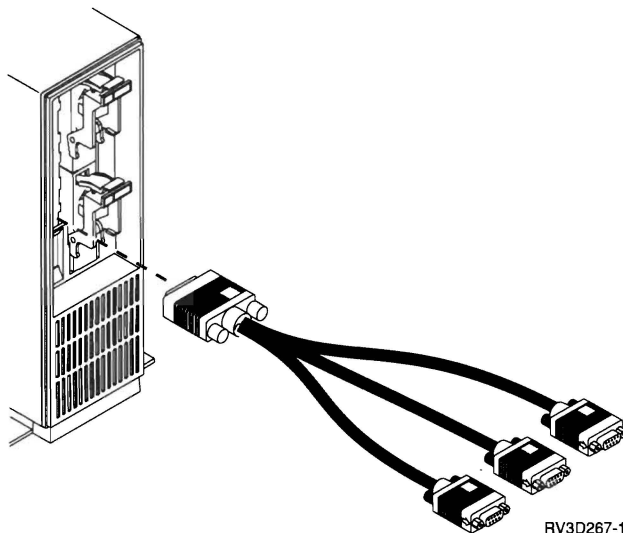
If you have an ASCII workstation as the system console, perform the following steps:

- 1** Prepare the ASCII workstation using the device information.
Verify the workstation settings, shown below.

Setup Parameters	Values
Machine mode	315X/316X
Operation mode	Echo
Attachment	Direct
Line control	IPRTS
Line speed	19200 bps
Parity	Even
Turnaround character	ETX
Stop bit	1
Word length	8 (bits)

If necessary, see the *ASCII Work Station Reference* book, or use the manual that came with the workstation.

- 2** Ensure that the port 0 connector of the ASCII cable is connected at the workstation.
Note: If the cable does not correctly match the connector on the workstation, you may use a 9-to-25 pin adapter.
- 3** Ensure that the workstation power cord is not plugged in the ac outlet.
- 4** Connect the workstation cable to the ASCII connector on the back of the 9401 System Unit. Verify that the cable is labeled at both ends.



5 Go to Chapter 4, "Connect the Cable and Modem for Electronic Customer Support" on page 4-1.

This ends the procedure.

Macintosh Workstation as the System Console

The Programmable Workstation Local Attachment support allows Macintosh computers running the SNA•ps 5250 Version 1.2 application to attach to the 9401 System Unit. Macintosh workstations are attached through LocalTalk network connections.

Requirements:

- Macintosh Plus or later-model computer with at least 4 megabytes (MB) of random access memory (RAM) and a hard disk drive
- System 7.0 or later system software
- SNA•ps 5250 Version 1.2 or later
- Type 6054 Workstation Adapter in position C of the 9401 System Unit.

Hardware Setup:

If you have a Macintosh workstation as the system console, perform the following steps:

- 1** Prepare the Macintosh workstation using the device information. For service reasons, the system console should be within 20 feet of the 9401 System Unit.
- 2** Ensure that the LocalTalk cable is connected at the workstation.
- 3** Ensure that the workstation power cord is not plugged in the ac outlet.
- 4** Connect the LocalTalk cable to the connector on the workstation adapter card in position C of the 9401 System Unit. Verify that the cable is labeled at both ends.

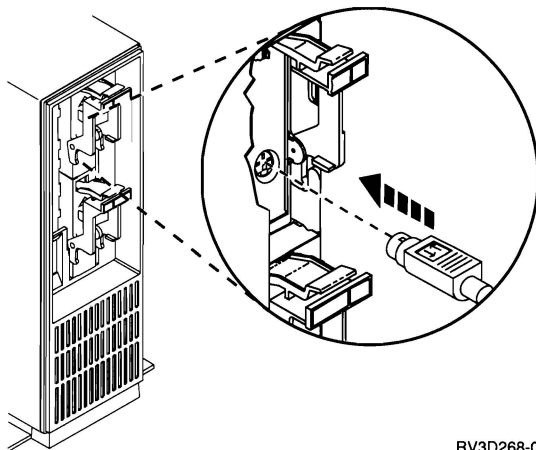


Figure 3-1. The LocalTalk cable connects to the adapter card in position C.

- 5** Attach the power cord to the Macintosh workstation and plug the power cord into the ac outlet.

Software Setup:

This section contains instructions for installing the support functions on the Macintosh workstation system console. To use the Programmable Workstation Local Attachment Support, you must first install the SNA•ps 5250 Version 1.2 application on the Macintosh workstation. For more information on the IBM Programmable Workstation Local Attachment for Macintosh support, open the *Read Me* files in the SNA•ps folder.

The Macintosh workstation appears to the 9401 System Unit as a locally attached 5250 device. The workstation emulated depends on the display type (color or monochrome) and the screen size specified in the SNA•ps 5250 Version 1.2 application.

To configure the Macintosh workstation as the system console, use the following procedure:

- 1** Power on the Macintosh workstation.
- 2** Install the SNA•ps 5250 Version 1.2 application on the Macintosh workstation.
Go to the device information for installation and configuration procedures for the SNA•ps 5250 application.
After you have installed the support functions, return here and continue to the next step of this procedure.
- 3** At the workstation, choose the console selection using the mouse. Perform the following procedure:
 - a. Double-click on the icon for the hard drive on which the SNA•ps folder is installed.
 - b. Double-click on the SNA•ps folder.
 - c. Double-click on the 5250 Access/AT Documents folder.
 - d. Double-click on the Console document.
- 4** Power off the Macintosh workstation.
- 5** Go to Chapter 4, "Connect the Cable and Modem for Electronic Customer Support" on page 4-1.
This ends the procedure.

For more information on using the Macintosh as the system console, see the Macintosh workstation information. For more information about system console functions, see the *System Startup and Problem Handling* book. For more information about automatic configuration, see the *Local Device Configuration* book.

Personal Computer as the System Console

Several types of personal computers can attach to the 9401 System Unit as the system console. Use the following information to assist in setting up your personal computer:

IBM ThinkPad or similar non-IBM device set up as a twinaxial device

Go to "IBM ThinkPad-Twinaxial as the System Console" on page 3-7.

Any personal computer set up as an ASCII device

Go to "Personal Computer Attached as an ASCII System Console" on page 3-9.

Any personal computer set up as a Client Access/400 Console

Go to "Personal Computer as the Client Access/400 System Console" on page 3-11.

Programmable Workstation Local Attachment for Macintosh

Go to "Macintosh Workstation as the System Console" on page 3-4.

Any other type of personal computer as a twinaxial device

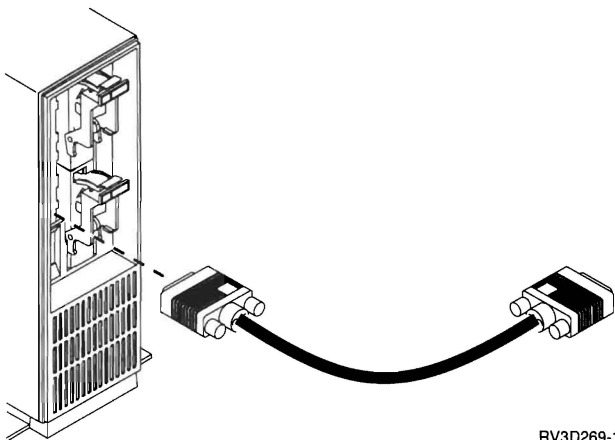
Use the following instructions to install the personal computer as the system console:

- 1** Power on the personal computer using the manual that came with the device.
- 2** Ensure that the appropriate emulator software is installed.
- 3** Use the emulation program to set the personal computer address to zero (0).

Notes:

- a. The personal computer can be set up so that it will start the 5250 emulation program when an IPL is performed.
- b. You cannot sign on to the Client Access/400 program on the personal computer until the 9401 System Unit has completed an IPL.

- 4** Power off the personal computer and unplug the power cord from the ac outlet.
- 5** Connect the cable to the workstation connector on the back of the 9401 System Unit. Verify that the cable is labeled at both ends.



- 6** Go to Chapter 4, "Connect the Cable and Modem for Electronic Customer Support" on page 4-1.
This ends the procedure.

IBM ThinkPad-Twinaxial as the System Console

This section provides instructions to attach an IBM ThinkPad or a similar non-IBM device to the 9401 System Unit on port 0, address 0. Refer to the DOS, 5250 Emulation PCMCIA Adapter, and ThinkPad documentation for reference information and problem determination.

If you are using an IBM ThinkPad model series 350, 500, 720, or 750, or a similar non-IBM device as the system console, use the following information in this section to assist in installing and setting up the system console:

Requirements:

These instructions assume that you have the following:

- PC attachment cable
- IBM ThinkPad model series 350, 500, 720, or 750 with a minimum of 4MB memory
- 5250 Emulation PCMCIA Adapter and PCMCIA cable
- 5250 Emulation PCMCIA Adapter Enabler/Diagnostic diskette (Version 1.01 or later)
- 5250 Emulation PCMCIA Adapter Support diskette (Version 1.02 or later)
- DOS (IBM Version 6.1 or later) installed and operating
- PCMCIA books for your personal computer.

ThinkPad Memory Considerations:

If Client Access/400, 5250 Emulation PCMCIA Adapter support, Windows, and RUMBA/400 are installed and running, the system must have at least 480K of conventional memory available. Load as many of your programs into extended or expanded memory as possible. Use the DOS program MEM.EXE to check the amount of memory available.

You can use the EMM386.EXE device driver in the CONFIG.SYS file to manage the amount of available memory. For more information on the device driver, see the DOS manuals.

Hardware Setup:

1 Ensure that the 9401 and the ThinkPad are powered off.

2 Install the 5250 PCMCIA card in the ThinkPad.

Use the instructions for installing and running diagnostics for the 5250 Emulation PCMCIA adapter using the *IBM 5250 Emulation PCMCIA Adapter Installation and Test Instructions*. Do not run the online test. Return here and continue with the next step of this procedure to attach the 9401.

Note: Do not install the cable at this time.

3 Ensure that the diskette is removed from drive A, power off the ThinkPad, and remove the power cord from the ac outlet.

4 Attach the cables:

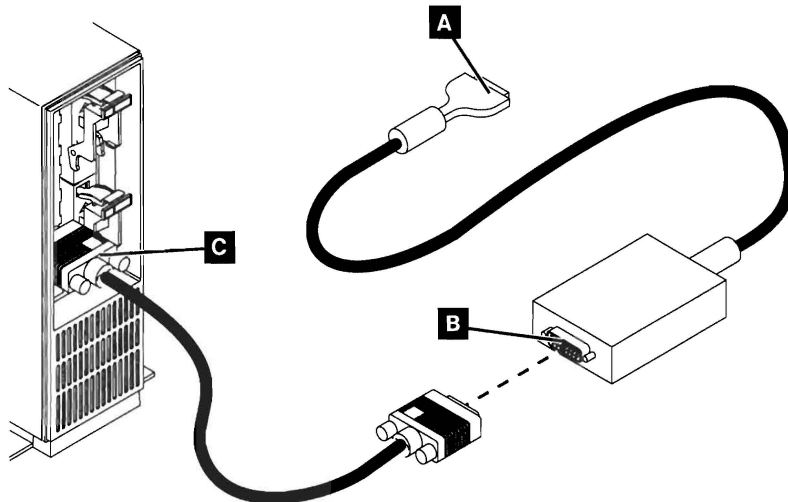
Warning: Attaching the cable with the ThinkPad powered on may cause damage to the ThinkPad or the PCMCIA adapter.

- a. Install the workstation end of the PCMCIA cable **A** to the PCMCIA adapter in the ThinkPad.

Note: Ensure that the cable notch is in the down position.

- b. Find the personal computer (PC) cable that was shipped with the 9401 System Unit.

Attach the system unit end of the PC cable **C** to the workstation connector on the back of the 9401 System Unit.



RV3D270-1

- c. Attach the workstation end of the PC cable to the PCMCIA cable pod **B**.

Verify that the cable is labeled at both ends.

5 Ensure that the Thinkpad is powered off.

6 Go to Chapter 4, "Connect the Cable and Modem for Electronic Customer Support" on page 4-1.

This ends the procedure.

Personal Computer Attached as an ASCII System Console

This section provides instructions to attach any personal computer as an ASCII system console to the 9401 System Unit.

Requirements:

These instructions assume that you have the following:

- A personal computer with an available serial port
- DOS (IBM Version 6.1 or later) installed and operating
- 31xx emulation program is required if Client Access/400 is not used

Memory Considerations:

If Client Access/400, Windows, and RUMBA/400 are installed and running, the system must have at least 480K of conventional memory available. Load as many of your programs into extended or expanded memory as possible. Use the DOS program MEM.EXE to check the amount of memory available.

You can use the EMM386.EXE device driver in the CONFIG.SYS file to manage the amount of available memory. For more information on the device driver, see the DOS manuals.

Hardware/Software Setup:

If you have a personal computer attached as an ASCII system console, perform the following steps:

1 Power on the personal computer using the personal computer manual.

2 Are you using 31xx emulation program on the personal computer?

Yes

No

↓

Go to step 5 of this procedure.

3 Prepare an emulation program using the following information:

Setup Parameters	Values
Line speed	Select the correct line speed
Parity	None
Stop bit	1
Word length	8 (bits)

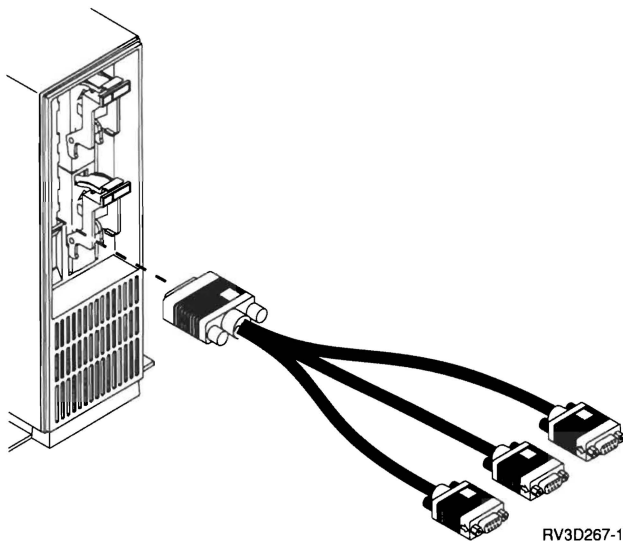
For more information, see the personal computer manual.

4 Power off the personal computer and unplug the power cord from the ac outlet.

5 Ensure that the port 0 connector of the ASCII cable is connected to the serial port on the personal computer.

Note: If the cable does not correctly match the connector on the workstation, you may use a 9-to-25 pin adapter.

- 6** Connect the system unit end of the workstation cable to the ASCII connector on the back of the 9401 System Unit. Verify that the cable is labeled at both ends.



- 7** Go to Chapter 4, "Connect the Cable and Modem for Electronic Customer Support" on page 4-1.
This ends the procedure.
-

Personal Computer as the Client Access/400 System Console

This section provides instructions on how to attach a Client Access/400 Console workstation to the 9401 System Unit as the system console. The Client Access/400 Console workstation is a personal computer that uses the Personal Computer 5250 (PC5250) or RUMBA/400 application to emulate a locally attached 5250 workstation. There is no workstation attachment connector available. The personal computer attaches to the adapter card in position B. This setup eliminates the need for a dependent workstation and a twinaxial or ASCII workstation I/O processor on the AS/400 system (see Figure 3-2). This configuration does not support a console printer.

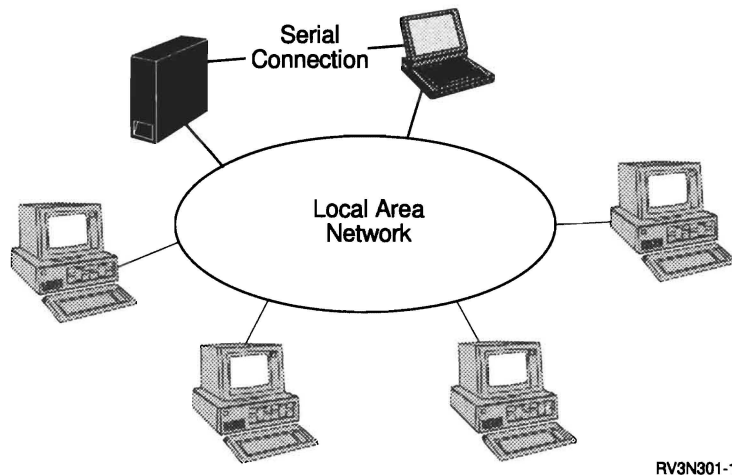


Figure 3-2. A Personal Computer Attached as the System Console

Hardware Setup:

If you have a personal computer that is set up as the Client Access/400 system console, perform the following steps:

- 1 Ensure that the personal computer power cord is not plugged in the ac outlet.
- 2 Install the system end of the PC attachment cable to the adapter card in position B of the 9401 System Unit.

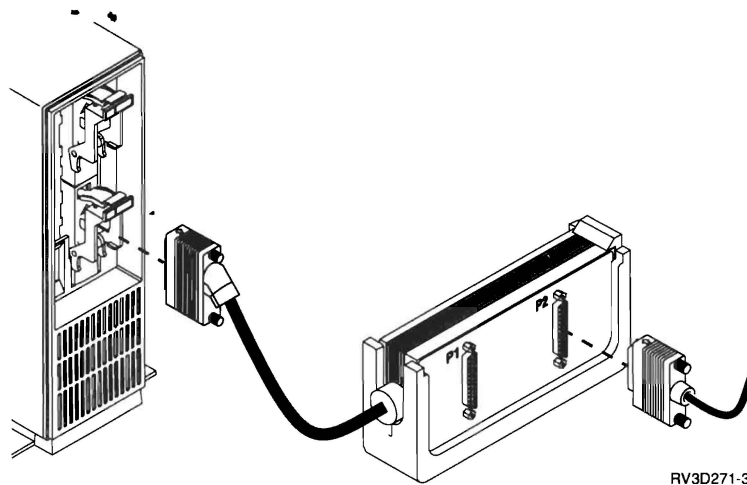


Figure 3-3. The PC Attachment Cable Connects to the Adapter Card in Position B.

3 Attach the workstation end of the workstation cable to the workstation connector on the personal computer.

Note: If the cable does not correctly match the connector on the workstation, you may use a 9-to-25 pin adapter.

4 Attach the system end of the workstation cable to connector P2 on the attachment cable (see Figure 3-3 on page 3-11).

5 Attach the power cord to the personal computer and plug the power cord into the ac outlet. Power on the personal computer.

6 Is Microsoft Windows active?

Yes

No

↓

To start the Microsoft Windows program, type the following at the DOS prompt and press the Enter key.

WIN

Continue to the next step of this procedure.

7 Insert the first Client Access/400 Console installation diskette in drive A.

8 Run the Client Access/400 installation program (Install) by performing the following:

- a. Select *File* on the Windows Program Manager menu bar.
- b. Select *Run* on File menu.
- c. The Run dialog box appears. At the Command Line box, type the following and press the Enter key:

A:INSTALL

9 Determine if you want to run PC5250 or RUMBA/400 emulation. From the display, select the correct emulation.

10 Follow the prompts for emulation install instructions (for example, you may be asked to insert a diskette).

11 Configure the PC5250 or RUMBA/400 emulation for the serial port that you are using (for example, COM1).

12 Exit Microsoft Windows and power off the personal computer.

13 Go to Chapter 4, "Connect the Cable and Modem for Electronic Customer Support" on page 4-1.
This ends the procedure.

Chapter 4. Connect the Cable and Modem for Electronic Customer Support

1 Do you plan to use electronic customer support (ECS)?

Yes

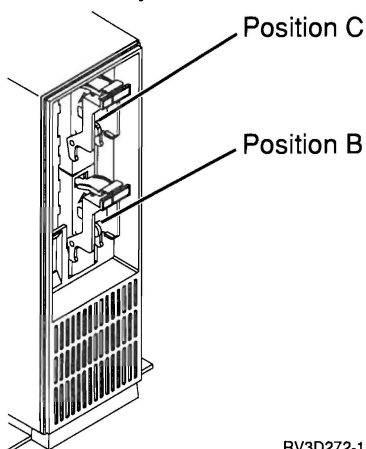
No



Go to Chapter 5, "Install Additional Devices" on page 5-1.

This ends the procedure.

2 Do you have an EIA-232/V.24 Communications Adapter card (type 2612 or 2609) in position B of the 9401 System Unit?



Yes

No



Your system does not contain the I/O adapter for ECS. Go to Chapter 5, "Install Additional Devices" on page 5-1.

This ends the procedure.

3 Find the communications cable. Use the following information to assist in determining the type of communications cable for your country.

6.1 Meters (20 Feet)

22F0152

22F0153 for Germany

22F0154 for Japan

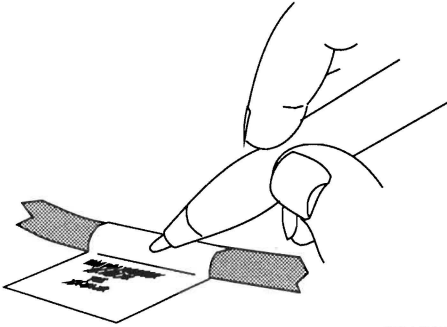
15.2 Meters (50 Feet)

21F9350

21F9352 for Germany

21F9351 for Japan

- 4** In the blank area of the cable labels (at both ends), write B. This is the location of the adapter card.



RSLU013-1

- 5** Do you have card type 2612 installed in position B of the 9401 System Unit?

Yes

No

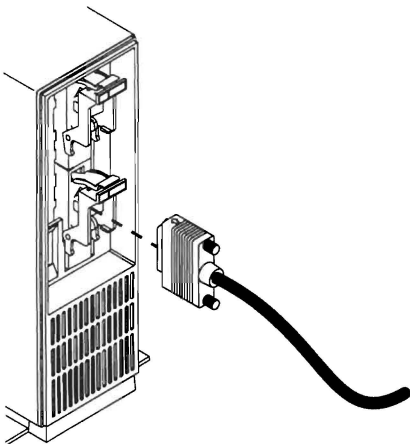


Go to step 7 of this procedure.

- 6** Connect the communications cable to the adapter card (see Figure 4-1). Be sure to tighten the thumbscrews.

Warning: Carefully align the cable connector with the card connector to ensure that you do not bend the pins.

Go to step 9 of this procedure.



RV3D273-1

Figure 4-1. Card Type 2612 in Position B for Twinaxial or ASCII as the System Console.

- 7** Connect the cable attachment cable to the adapter card in position B (see Figure 4-2). Be sure to tighten the thumbscrews.

Warning: Carefully align the cable connector with the card connector to ensure that you do not bend the pins.

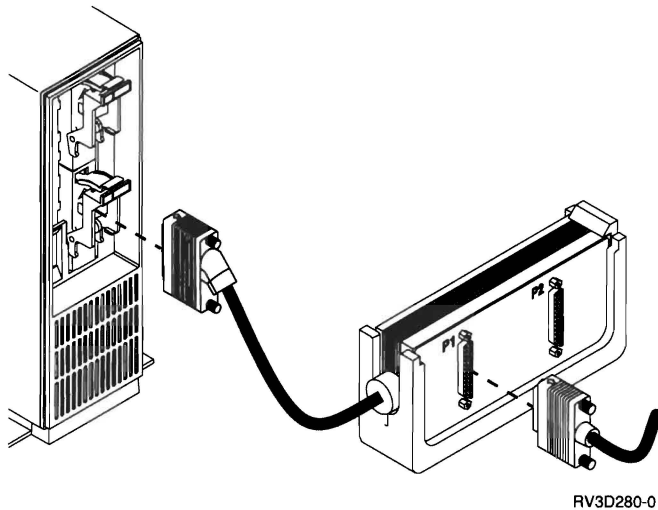


Figure 4-2. Card Type 2609 in Position B for Twinaxial, ASCII, or Client Access/400 Console as the System Console.

8 Connect the system-unit end of the modem cable to connector P1 of the cable attachment cable (which is connected to the adapter card in position B). See Figure 4-2 on page 4-3. Be sure to tighten the thumbscrews.

9 Is the modem that you are using for ECS an IBM product?

Yes

No

↓

Go to step 12 of this procedure.

10 Is the modem that you are using for ECS an IBM 5853?

No

Yes

↓

Go to step 17 of this procedure.

11 Is the modem that you are using for ECS an IBM 7855?

No

Yes

↓

Go to step 18 of this procedure.

12 Use the modem information for instructions on how to set up the modem.

13 Ensure the following settings are correct:

- Answer tone
- Carrier disconnect wait time
- Injected tone
- Receiver sensitivity
- Delay time between the ring and the modem response

Note: You may need to contact your telephone company or the Post Telephone and Telegraph Administration to determine the correct settings.

14 Ensure that the modem is set up as follows:

- Automatic answer must be enabled
- Dialing is bit synchronous (high-level data link control [HDLC])
- Protocol is HDLC with ASCII
- Call origination must be enabled

15 Ensure that the modem is set up so that the modem interface signals are controlled as shown in the following table.

Circuit	Abbreviation	CCITT	Pin	Comments
Transmit Data	XD	103	2	Controlled by DTE
Receive Data	RD	104	3	Received from DCE
Request to Send	RTS	105	4	Controlled by DTE
Ready for Sending	CTS/RFS	106	5	Received from DCE Follows RTS (circuit 105, pin 4)
Data Set Ready	DSR	107	6	Received from DCE Indicates connection is made
Data Terminal Ready	DTR	108	20	Controlled by DTE
Receive Line Signal Detect	CD	109	8	Not used
Data Signal Rate Select	RATE	111	23	Controlled by DTE
Transmit Signal Element Timing from DTE	DTE	113	24	Not used
Transmit Signal Element Timing from DCE	TCLK	114	15	Must be provided by DCE
Receive Signal Element Timing	RCLK	115	17	Must be provided by DCE
Select Standby	STBY	116	11	Not used
Calling Indicator	RI/CI	125	22	Must be provided by DCE
Loopback Maintenance Test	RLB	140	21	Controlled by DTE Must be enabled in DCE
Local Loopback	LLB	141	18	Controlled by DTE Must be enabled in DCE
Test Indicator	TI	142	25	Not used
Channel Select	CS	126	11	Not used
Data Rate Indicate	DRI	112	12	Not used
Note: CCITT = International Telegraph and Telephone Consultative Committee DTE = Data terminal equipment (system) DCE = Data communications equipment (modem)				

16 All other modem functions should remain as set by the modem manufacturer. Go to step 18 of this procedure.

17 Perform the following:

- Set the A/S (asynchronous) switch on the front panel of the modem to the In position.
- Set the F/S switch on the front panel of the modem to the Out position for 2400 bps.
- Set all of the switches on the rear panel of the modem to the On (up) position (except for the power switch).

18 Find the communications cable labeled B.

Align the modem-unit end of the cable with the connector on the modem. Push the cable connector in and tighten the thumbscrews.

19 Is the telephone or telephone jack installed (for the electronic customer support modem)?

No

↓

Yes

Perform the following:

- For the IBM 5853 modem, connect the **Line** socket on the modem to the telephone jack. You can optionally connect a telephone to this modem using the **Set** socket.
- For other modems, see the device (modem) information for instructions.

Continue with the next step of this procedure.

20 You have completed connecting the cable and modem for electronic customer support.

Go to Chapter 5, "Install Additional Devices" on page 5-1.

This ends the procedure.



Chapter 5. Install Additional Devices

This chapter instructs you to install additional devices and power on workstations, printers, modems and the external tape unit.

1 Do you have additional workstations or printers to install?

Note: If the system console is a twinaxial attachment with a single-port cable, 6 additional twinaxial connections are supported. If the system console is a twinaxial attachment with a two-port cable, 13 additional twinaxial connections are supported. If the system console is an ASCII attachment, 2 additional ASCII connections are supported.

No

Yes

↓

Use the twinaxial device information to install and connect the cables. If a service representative is scheduled to install the additional devices, ensure that the installation instructions are kept with the device.

If you choose to perform the IPL without the additional devices, continue with the next step of this procedure.

2 Do you have a token-ring or Ethernet adapter card in position C of the 9401 System Unit (see Figure 2-1 on page 2-3)?

No

Yes

↓

Attach the token-ring or Ethernet cable to the adapter card connector (in position C).

Note: If you are using an RJ-type jack, connect the attachment cable (part 21H1955) between the adapter card and the token-ring or Ethernet cable.

Use the local area network communications information to connect additional cables. If a service representative is scheduled to install the additional devices, ensure that the installation instructions are kept with the device.

If you choose to perform the IPL without the additional communications, continue with the next step of this procedure.

3 Do you have additional communications devices (modem, modem eliminator, and so on) or communications cables to install?

Note: Chapter 4, "Connect the Cable and Modem for Electronic Customer Support" on page 4-1 contains the ECS installation instructions.

No

Yes

↓

Use the device information to install and connect the cables. If a service representative is scheduled to install the additional devices, ensure that the installation instructions are kept with the device.

If you choose to perform the IPL without the additional devices, continue with the next step of this procedure.

4 Do you have an external tape unit to install?

Note: Only the IBM 3450 Model 001 or IBM 7207 Model 012 tape units, or the feature 6365 can be attached to the 9401 System Unit.

No



Yes

To install the tape unit, go to "External Tape Unit Installation Procedure" on page 5-3, and then return here and continue with the next step of this procedure.

If a service representative is scheduled to install the additional devices, ensure that the installation instructions are kept with the device.

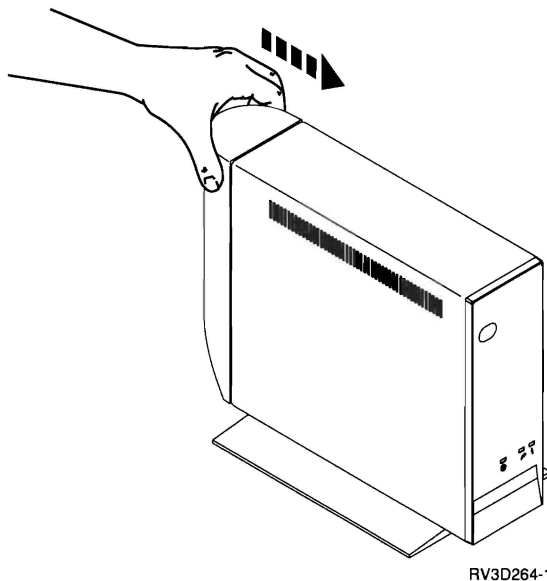
If you choose to perform the IPL without the additional devices, continue with the next step of this procedure.

- 5** Plug the power cords for the 9401 System Unit and all the system devices (workstations, printers, modems, and the external tape unit) into the ac outlets.

- 6** Power on all the workstations, printers, modems, and the external tape unit.

Note: Do not power on the 9401 System Unit at this time.

- 7** Install the back cover of the system unit.



- Slide the bottom clips into the lower slots of the system unit.
- Grip the upper corners of the cover and push into the upper portion of the unit.

- 8** Your system is prepared for an IPL. Keep all materials for use by the service representative in a safe place.

- 9** Go to Chapter 6, "Perform an Initial Program Load" on page 6-1.

This ends the procedure.

External Tape Unit Installation Procedure

Use the following procedure to install the IBM 3450 Model 001 or IBM 7202 Model 012 tape unit, or feature 6365 to the 9401 System Unit.

- 1** Place the tape unit where you plan to install it.
- 2** Set the tape unit address switch on the back of the tape unit to zero (0). See the device information for instructions on how to set the address.
- 3** Find the SCSI external tape unit cable.
- 4** Connect the tape unit end **C** of the SCSI external tape unit cable to the back of the tape unit.

Note: If you are installing feature 6365, there are two SCSI connectors on the back of the tape unit. You can install the cable in either connector.

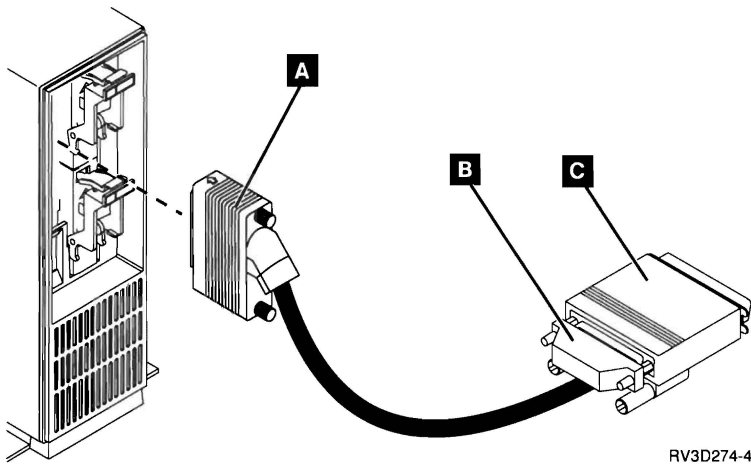


Figure 5-1. The SCSI cable for IBM type 3450 or 7207 devices.

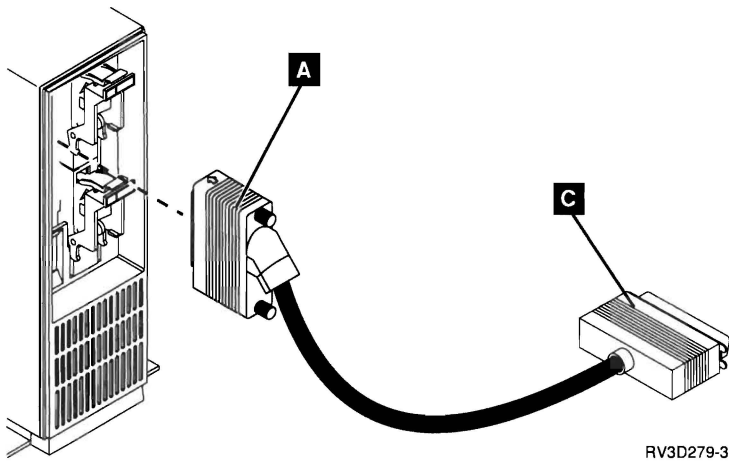
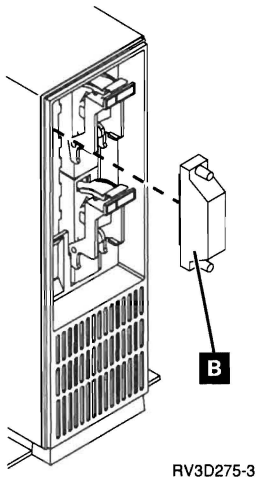


Figure 5-2. The SCSI cable for IBM feature 6365.

- 5** Remove the SCSI terminator from the connector on the back of the 9401 System Unit.



- 6** Are you installing feature 6365?

No

Yes



Install the terminators by performing the following:

- The terminator that was removed from the system unit in step 5 is not used. Store the terminator in a safe place.
- Install the terminator that was shipped with the feature into the available SCSI connector on the back of the tape unit.

Go to step 8 of this procedure.

- 7** You are installing an IBM 3450 Model 001 or an IBM 7207 Model 012.

Install the terminator (that was removed in step 5 of this procedure) to the terminator connector at the tape unit end of the SCSI cable. See Figure 5-1 on page 5-3, **B**.

- 8** Connect the system-unit end **A** of the SCSI cable to the SCSI connector on back of the 9401 System Unit. See Figure 5-1 or Figure 5-2 on page 5-3.

- 9** Connect the power cord to the back of the tape unit.

- 10** Return to step 5 on page 5-2 in Chapter 5, "Install Additional Devices."

Note: For instructions on how to clean the tape unit, see the tape device manual, or the tape unit section in the *System Startup and Problem Handling* book.

This ends the procedure.

Chapter 6. Perform an Initial Program Load

Use the procedures in this chapter to perform an IPL on the 9401 System Unit. Ensure that you have completed the procedures in Chapter 5, "Install Additional Devices" on page 5-1.

- 1 Open the front cover of the 9401 System Unit (see Figure 2-2 on page 2-4).

Is 01 B N displayed on the control panel of the 9401 System Unit?

No

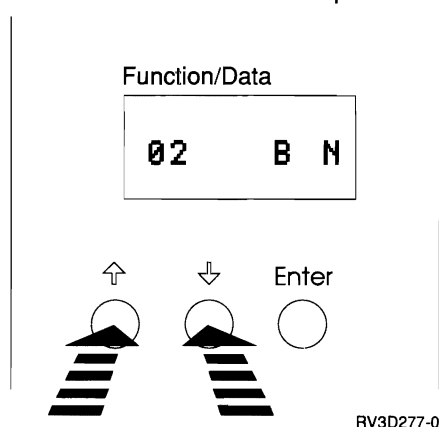
Yes

↓

Go to step 5 of this procedure.

- 2 Select the IPL type and mode from the control panel of the 9401 System Unit.

- a. Press the Up (↑) or Down (↓) pushbutton until 02 appears in the Function/Data display.
- b. Press Enter on the control panel.



- c. Press the Up (↑) or Down (↓) pushbutton until B N appears in the Function/Data display.
- d. Press Enter on the control panel.

- 3 Verify that you have selected to perform an IPL from disk (B) in Normal mode (N).

- a. Press the Up (↑) or Down (↓) pushbutton until 01 appears in the Function/Data display.
- b. Press Enter on the control panel.

- 4 Does B N appear in the Function/Data display?

Yes

No

↓

Use Function 02 to select the IPL type and mode.

Return to step 2 of this procedure.

- 5 Are you using a nonprogrammable workstation as the system console?

No

Yes

↓

Ensure that the workstation is powered on.

Go to step 8 of this procedure.

6 Are you using a personal computer, IBM ThinkPad, or a similar device with display emulation program (5250 or 31xx) as the system console?

Note: This step does not support a personal computer that has Client Access/400 active.

No **Yes**

↓

Power on the personal computer and perform an IPL on the personal computer.
Go to step 8 of this procedure.

7 Are you using a programmable workstation local attachment for Macintosh as the system console?

No **Yes**

↓

Power on the Macintosh workstation and perform the following:

- a. Double-click on the icon for the hard drive on which the SNA•ps folder is installed.
- b. Double-click on the SNA•ps folder.
- c. Double-click on the 5250 Access/AT Documents folder.
- d. Double-click on the Console document.

Continue to the next step of this procedure.

8 Press the power pushbutton on the 9401 System Unit to perform an IPL. The IPL takes approximately 20 minutes to complete.

9 Is the system console a twinaxial or ASCII attached personal computer, IBM ThinkPad, or similar device that needs the Client Access/400 support program installed?

Yes **No**

↓

Go to step 11 of this procedure.

10 You can install the personal computer support functions (on twinaxial or ASCII attachments) while the system is performing an IPL. Go to "Installing Client Access/400 and Emulation Support" on page 6-5. After you have completed installing the personal computer support functions, return here and continue to the next step of this procedure.

Note: If you have local area network communications, use the communications information to install the support functions.

11 Does the Sign On display appear on the system console?

Yes **No**

↓

Go to the "Handling and Reporting System Problems" section in the *System Startup and Problem Handling* book.

```

Sign On
System . . . . . : PORTABLE
Subsystem . . . . : QBASE
Display . . . . . : DSP01

User . . . . . : _____
Password . . . . . : _____
Program/procedure . . . . . : _____
Menu . . . . . : _____
Current library . . . . . : _____

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```

12 Are you using a Macintosh workstation as the system console?

No

Yes



Save the console selection information for subsequent IPLs. Continue with the next step of this procedure.

13 Sign on to the system.

- On the *User* prompt of the Sign On display, type QSECOFR.
- Press the Enter key.

14 Does the AS/400 Main Menu appear?

Yes

No



Go to the “Handling and Reporting System Problems” section in the *System Startup and Problem Handling* book.

```

MAIN                AS/400 Main Menu                System: PORTABLE

Select one of the following:

1. User tasks
2. Office tasks
3. General system tasks
4. Files, libraries, and folders
5. Programming
6. Communications
7. Define or change the system
8. Problem handling
9. Display a menu
10. Information Assistant options
11. PC Support tasks

90. Sign off

Selection or command
====>

F3=Exit  F4=Prompt  F9=Retrieve  F12=Cancel  F13=Information Assistant
F23=Set initial menu

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```

15 Verify that the system is operational.

Is the System Attention light on (see Figure 2-2 on page 2-4)?

No

Yes



Go to the “Handling and Reporting System Problems” section in the *System Startup and Problem Handling* book.

16 Do you plan to use the electronic customer support?

No

Yes



Go to Chapter 7, "Electronic Support" on page 7-1.

17 Go to Chapter 8, "Set the System Values" on page 8-1.

Note: To power off the 9401 System Unit, see Appendix A, "Power Off the System" on page A-1.

This ends the procedure.

Installing Client Access/400 and Emulation Support

This section contains instructions for installing the Client Access functions on a personal computer as the system console. The personal computer can be an IBM-compatible computer that has a 5250 emulation adapter installed or a serial port available for ASCII. It can also be a mobile computer such as an IBM ThinkPad (requires a PCMCIA adapter for a twinaxial system). You can install the support functions while performing an IPL on the 9401 System Unit. When you have completed this procedure, return to the step that brought you here (in Chapter 6, "Perform an Initial Program Load").

1 Insert the Client Access/400 installation diskette 1 in drive A.

2 Are you installing Client Access/400 with Microsoft Windows?

No

↓

Yes

Perform the following steps:

- a. Start Windows if it is not already active (type WIN at the DOS prompt and press the Enter key).
- b. Run the Client Access/400 installation program (Install) by performing the following procedure:
 - 1) Select *File* on the Windows Program Manager menu bar.
 - 2) Select *Run* on File menu.
 - 3) The Run dialog box appears. At the Command Line box, type the following and press the Enter key:
A:INSTALL
- c. Go to step 4 of this procedure.

3 To install Client Access/400 with DOS, type the following at the DOS prompt:

A:INSTALL

Press the Enter key.

The Client Access/400 installation program (Install) runs.

4 The Client Access/400 display appears. Press the Enter key to continue.

5 Use the following recommended information to complete the Client Access/400 installation.

Notes:

- a. See the Client Access/400 setup book (for your environment) for more information.
- b. Use the Tab key to move the cursor from one field to the next.
- c. Use one of the following methods to select the action:
 - Type the action.
 - Move the cursor to your selection and press the space bar.
 - Type the highlighted letter.
 - Type the selection number.

After all of the actions are selected, press the Enter key.

- d. Some of the fields may not appear.

Field	Action
For All Workstations	
Drive to contain Client Access directory	C
Drive your personal computer starts from	C
Accept default configuration	No
Accept default configuration	No
Start Client Access automatically	Yes
Reduce messages displayed when starting Client Access	Yes
Client Access functions to be started automatically	Choose any, all, or none of the functions (see note 3).
Options to use with workstation function	Select one, both, or none of the functions - <i>Session Manager</i> or <i>Organizer</i> (see note 3).
Initial Client Access menu	No menu (command prompt)
PC location name	xxxxxxx (see note 1)
Name of system to connect to	Syyyyyyy (see note 2)
For Twinaxial Workstations Only	
Connection information	Twinaxial
Workstation address	0
For ASCII Workstations Only	
Connection information	Asynchronous communications
Additional connection information	Press F9
Connect timer	255
Port number	Select the available serial port
Line speed	Select the correct line speed for the serial port
Line type	Non-switched point-to-point
Number of data bytes	8
Specify a modem initializing string	No
Notes:	
1	xxxxxxx is any eight alphabetic characters (up to eight) that you choose (for example, THINKPAD).
2	yyyyyy is the 9401 serial number found on the front of the machine (example 10-00001, enter S1000001).
3	The Workstation Function and Session Manager functions cannot be used with Microsoft Windows.

After all actions are selected, press the Enter key.

6 Throughout the installation, the displays prompt you to press the Enter key or insert the Client Access/400 diskette.

If a prompt appears that asks about the system unit, enter a *No* response. You cannot communicate with the AS/400 at this time.

When the completion display appears, press the Enter key and type 1 to exit the installation program.

7 Is Microsoft Windows active?

No **Yes**

↓ To exit the Microsoft Windows program, press and hold the Alt key, then press the F4 key. At the Exit Windows box, press the Enter key.

Continue to the next step of this procedure.

8 Remove the Client Access/400 installation diskette from drive A.

9 Are you using a 5250 Emulation PCMCIA adapter in your personal computer?

Yes **No**

↓ Go to step 16 of this procedure.

10 Is the 5250 emulation PCMCIA adapter an IBM product?

Yes **No**

↓ Follow the installation instructions for Client Access/400 in the (non-IBM) adapter information, then go to step 16 of this procedure.

11 Run the 5250 Emulation PCMCIA Adapter Setup program (Setup) by performing the following:

- a. Insert the 5250 Emulation PCMCIA Adapter Enabler/Diagnostic diskette in drive A.
- b. At the DOS prompt, type the following and press the Enter key:
A:

c. At the DOS prompt, type the following and press the Enter key:
SETUP C:\ENB5250
- d. Use the space bar to select the correct PCMCIA support for your 5250 Emulation PCMCIA adapter (Card/Services 2.00/2.01 support is recommended).
- e. Press F10 (Save) to save the information selected.
- f. Press F3 (Exit) to continue.
- g. At the DOS prompt, type the following and press the Enter key:
C:

h. Remove the 5250 Emulation PCMCIA Adapter Enabler/Diagnostic diskette from drive A.

12 Copy the files on the SFPCS subdirectory to the PCS subdirectory by performing the following procedure:

- a. Insert the 5250 Emulation PCMCIA Adapter Support diskette in drive A.
- b. At the DOS prompt, type the following and press the Enter key:
COPY A:\SFPCS*. * C:\PCS
- c. Remove the 5250 Emulation PCMCIA Adapter Support diskette from drive A.

13 Are you using the Card/Services 2.00/2.01 support?

No **Yes**

↓ Device driver support for the PCMCIA slots must be in the CONFIG.SYS file of your personal computer. If you do not have this support, use the *PCMCIA* book to order. Install PCMCIA software and update the CONFIG.SYS file.

14 Edit the CONFIG.SYS file by performing the following procedure:

- a. At the DOS prompt, type the following and press the Enter key.
`CD\`
- b. At the DOS prompt, type the following and press the Enter key.
`C:\DOS\E CONFIG.SYS`
- c. At the end of the file, add the following line:
`DEVICE=C:\ENB5250\CSDD5250.SYS`
- d. Press F4 (File) to save and quit the editor.

15 Edit the STARTPCS.BAT file (in the PCS subdirectory) by performing the following the following:

- a. At the DOS prompt, type the following and press the Enter key:
`CD\PCS`
- b. At the DOS prompt, type the following and press the Enter key:
`C:\DOS\E STARTPCS.BAT`
- c. Change the E5250AH (for model series 350, 360, 500, 510, 750 or 755) or WSEAH (for model series 720) line to the following:
`CALL LDMCAAHS`
- d. Press F4 (File) to save and quit the editor.

16 Edit the AUTOEXEC.BAT file by performing the following procedure:

- a. At the DOS prompt, type the following and press the Enter key.
`CD\`
- b. At the DOS prompt, type the following and press the Enter key:
`C:\DOS\E AUTOEXEC.BAT`
- c. Change the the C:\PCS\STARTPCS or CALL C:\PCS\STARTPCS line to the following lines:
`SET ENB5250=C:\ENB5250 (only if you have a 5250 emulation PCMCIA adapter)`
`CD\PCS`
`CALL STARTPCS`
- d. Ensure that the CALL STARTPCS (Client Access/400) line appears before the WIN (Windows) or DOSSHELL (DOS shell) line.
Press F4 (File) to save and quit the editor.

17 After approximately 20 minutes, the 9401 System Unit IPL should be complete (IPL times may vary depending on the AS/400 applications).

Is the following shown on the Function/Data display located on the control panel?

01 B N

Yes

No

↓

Perform an IPL on the system again (see Chapter 6, "Perform an Initial Program Load" on page 6-1). If the system does not complete the IPL successfully, contact your service representative.

18 Prepare to update the PCS directory on the personal computer.

Reboot the personal computer by performing the following steps:

- Use the power switch to power off the personal computer.

Wait at least ten seconds. Power on the personal computer again.

Enter a user ID when prompted (for example, QSECOFR). When the password prompt appears, enter the correct password or press the Enter key.

19 Press the F1 key to display the files that need to be updated.

Do you want to update the PCS directory on the personal computer?

Yes

No

↓

Press the Esc key and go to step 21 of this procedure.

20 To update the PCS directory, the Client Access/400 files are transferred to the personal computer.

When the transfer is complete, reboot the personal computer by performing the following:

- Press and hold the Alt and Ctrl keys, then press the Del key.

Enter a user ID when prompted (for example, QSECOFR). When the password prompt appears, press the Enter key.

21 Are you installing Client Access/400 with Microsoft Windows?

Yes

No

↓

You have completed the installation of Client Access/400 with DOS.

This ends the procedure.

22 Is Microsoft Windows active?

No

Yes

↓

To exit the Microsoft Windows program, press and hold the Alt key, then press the F4 key. At the Exit Windows box, press the Enter key.

Continue to the next step of this procedure.

23 Configure Client Access/400 to run with Microsoft Windows by performing the following procedure:

- a. At the DOS prompt, type the following and press the Enter key:
I:
- b. At the DOS prompt, type the following and press the Enter key:
CD\QIWSFL2
- c. At the DOS prompt, type the following and press the Enter key:
CFGPCS
- d. At the Client Access/400 display press the Enter key.
- e. The Client Access/400 Configuration display appears. Press the G key to select *General options*.
- f. Type the drive letter (C) that contains the Client Access/400 directory and press the Enter key.
- g. The General Options for Client Access/400 display appears. Press the W key to select *Microsoft Windows and DOS 5.0* option.
- h. Use the following recommended information to configure Client Access/400 with Microsoft Windows.

Notes:

- a. Use the Tab key to move the cursor from one field to the next.
- b. Use one of the following methods to select the action:
 - Type the action.
 - Move the cursor to your selection and press the space bar.
 - Type the highlighted letter.
 - Type the selection number.

After all of the actions are selected, press the Enter key.

- c. Some of the fields may not appear.

Field	Action
Run Client Access with Microsoft Windows	Yes
AS/400 connection environment	Microsoft Windows
Create Client Access/400 group	Yes
Directory where Microsoft Windows is located	y:\xxxxxxx
Run Client Access with DOS 5.0 Task Swapper	No
Communications buffer size	16
Options to use Work Station Function	none selected

Notes:

- 1 xxxxxxxx is the directory where Microsoft Windows is located (usually, WINDOWS).
- 2 y is the drive letter where Microsoft Windows is located (usually, C).

At the Confirmation window, press the Enter key to continue.

Type 1 to save and exit the installation program.



24 When the configuration completion display appears, press the Enter key.

Press F3 (Exit) twice.

The Exit Box display appears.

To exit the configuration program, type 1.

25 Reboot the personal computer by performing the following:

- Press and hold the Alt and Ctrl keys, then press the Del key.

26 To start Windows, type WIN at the DOS prompt and press the Enter key (it may be started already).

27 Perform the following at the Client Access/400 Setup window:

- a. Select *Group*.
- b. Select *RUMBA/400* or *PC/5250*.

Note: The files for RUMBA/400 or PC/5250 are transferred from the AS/400 to the personal computer.

- c. Choose any other items from the list that you may want.
- d. Press the Enter key or select *OK*.

28 Configure Client Access/400 by performing the following:

- a. Double-click on the Client Access/400 group from the Program Manager.
- b. Double-click on the Configuration icon within the Client Access/400 group.
- c. Double-click on the Startup Options icon within the Client Access/400 Configuration program.
- d. Select the functions that you want to start automatically.
- e. If you want an 5250 emulation display, make sure to select *Automatically start emulation and the Select session* (to assign a emulation profile). If there are no emulation profiles, you must bring up the 5250 emulation program, save a profile, and then perform step 28 again.
- f. Close (exit) the Client Access/400 Configuration program.

29 Start the Windows Client Access/400 support. Perform the following procedure:

- a. Double-click on the Client Access/400 Support Startup group from the Client Access/400 group.
- b. Type the user ID and password (if required), then press the Enter key to sign on to the AS/400.

Note: If you want Microsoft Windows to start Client Access/400 every time Microsoft Windows starts, perform the following steps:

- Copy the Client Access Support Startup icon from the Client Access/400 group to the Startup icon in the Program Manager.
- Hold the Ctrl key and drag the icon from one group to the other.

30 If you are installing RUMBA/400, select RUMBA/400 on the Client Access/400 Setup Panel (if RUMBA/400 is not installed on your 9401, it will not appear on the setup panel). This will transfer the RUMBA/400 files to the personal computer. When this has completed, restart Windows.

31 You have completed the installation.

Go to Chapter 6, "Perform an Initial Program Load" on page 6-1 and return to the step that brought you here.

If you have problems, verify that:

- The AUTOEXEC.BAT text was entered correctly.
- The STARTPCS.BAT text was entered correctly.
- All cables are connected securely.
- Diagnostics for the 5250 emulation adapter (PCMCIA, ISA, or MCA) run without error.

This ends the procedure.





Chapter 7. Electronic Support

The AS/400 System Unit allows access to the following electronic support services:

- Electronic Customer Support (ECS)
- IBM remote marketing support

This chapter contains the instructions for entering information and testing the Electronic Customer Support (ECS) services. ECS connects the AS/400 to the IBM service system. It is used for hardware and software problem analysis, reporting, and management.

The remote marketing support function uses an IBM support system (for example, IBMLink*) to access the IBM information network. Remote marketing support functions include question and answer support, IBM product information access, and a technical information exchange. If you are registered for remote marketing support, use the information provided in the AS/400 welcome packet to set up the service.



Enter the Electronic Customer Support Information

- 
- 1** On the command line of the AS/400 Main Menu, type the following and press the Enter key:

CALL QSCBSRVE

- 2** The Specify IBM Remote Service Parameters display appears.

- 
- 3** Are you installing this system in the United States?

Yes

No

↓

Call your service representative for the IBM service support phone numbers.

Go to step 5 of this procedure.

- 
- 4** Press the Help key. The IBM Service Support Numbers - Help display appears.

Write the primary and alternate telephone numbers displayed for your location in the space below.

Primary number: _____

Alternative number: _____

Use these numbers in the following steps of this procedure.

Press F12 (Cancel) to return to the Specify IBM Remote Service Parameters display.

- 5** Type the primary and alternate telephone numbers in the correct fields on the Specify IBM Remote Service Parameters display.

Do not type spaces or separators as part of the telephone number.

```
MAIN          Specify IBM Remote Service Parameters          System: PORTABLE

Type information, press Enter.

Connection numbers
Primary telephone number . . . . . 18001234567
First alternate number . . . . . 18009876543
Second alternate number . . . . .
Third alternate number . . . . .

Connection number prefix
Number required to obtain
outside line . . . . . 9
Turn modem speaker on . . . . . Y Y=Yes, N=No
Select tone or pulse dialing . . . . . 1 1=Tone, 2=Pulse

F3=Exit  F5=Refresh  F12=Cancel
```

- 6** Verify that you entered the telephone numbers and the connection information correctly. Information is available for each field by pressing the Help key while the cursor is in the field.

Press the Enter key.

- 7** The Display Data Area display appears.

```
Display Data Area          System: PORTABLE

Data area . . . . . : QESTELE
Library . . . . . : QUSRSYS
Type . . . . . : *CHAR
Length . . . . . : 200
Text . . . . . :

Offset      Value
0          'SST9:18001234567
50         'SST9:18009876543
100        'SST9:
150        'SST9:

Bottom

Press Enter to continue.

F3=Exit  F12=Cancel
```

The first four positions of the *Value* column show the connection information: modem speaker on (SS), tone dialing (T) or pulse dialing (P), and outside line number (for example, 9).

Press the Enter key to continue.

Note: The QSYSOPR message queue is in break mode, therefore, informational messages may appear on the display as you perform the remaining tasks.

When the Display Messages display appears, read the messages and follow the instructions. If a message needs a reply, *C* (cancel), *I* (ignore), or *R* (retry) appears at the end of the message. For more information about messages, see the “Handling Messages” section in the *System Startup and Problem Handling* book.

Press the Enter key.

- 8** The Work with Support Contact Information display appears.

Select the *Work with Service providers* option and press the Enter key.

9 The Work with Service Providers display appears.
Type a 2 (Change) in the *Opt* field for the *IBMSRV information.
Press the Enter key.

10 If you are installing this system in the United States, type the following on the Change Service Provider display:
Hardware service: 18004267378
Software service: 18002375511
If you are not installing this system in the United States, call your service representative for the service telephone numbers.
Press the Enter key.

11 The Work with Service Providers display appears.
Press F3 (Exit).

12 The Send Test Request display appears.
Press F12 (Cancel).
Do not send a test request now. The test will be performed in the procedure "Test the Electronic Customer Support Remote Services" on page 7-5.

13 The Work with Support Contact Information display appears.
Select the *Work with local service information* option and press the Enter key.

14 The Work with Local Service Information display appears.
Select the *Change service contact information* option and press the Enter key.

15 The Change Service Contact Information display appears.
Type the information about your company and verify that it is correct.

Change Service Contact Information

System: PORTABLE

Type changes, press Enter.

Company

Contact

Contact telephone numbers:

Primary

Alternative

Mailing address:

Street address

City/State

Country

Zip code

F3=Exit F4=Prompt F5=Refresh F12=Cancel

More...

```

Change Service Contact Information      System: PORTABLE
Type changes, press Enter.

National language version      2924  F4 for list
Media for mailing PTFs . . . 1      1=Automatic selection
                                   2=Half inch reel, 1600 bpi
                                   3=Half inch reel, 6250 bpi
                                   4=Half inch cartridge
                                   5=8 MM cartridge
                                   6=Quarter inch cartridge

F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel

```

Notes:

- a. You must page forward to the next display to complete this step.
- b. Press the Help key for more information about the *Media for mailing PTFs* field.

Press the Enter key.

16 The Work with Local Service Information display appears with the following message:

Data area QSSF created in library QUSRSYS.

Note: If the contact information had been created previously and you change it, the following message appears:

Support contact information updated.

Press F3 (Exit).

17 The Send Test Request display appears.

18 You have completed entering the information for the ECS remote services.

Do you want to test the ECS remote services?

No

Yes

↓

Go to "Test the Electronic Customer Support Remote Services" on page 7-5.

Note: Do not exit the Send Test Request display.

This ends the procedure.

19 Press F3 (Exit) until you reach the AS/400 Main Menu.

Go to Chapter 8, "Set the System Values" on page 8-1.

This ends the procedure.

Test the Electronic Customer Support Remote Services

This section contains instructions on how to perform the following tests:

- Connection/Registration test
- Operating System Preventive Service Planning (PSP) test
- Licensed Internal Code Preventive Service Planning (PSP) test

Ensure that you have entered the remote service information (see “Enter the Electronic Customer Support Information” on page 7-1) before performing this procedure.

- 1 From the Send Test Request display, press the Enter key to send a test request to the IBM service support system.

Messages showing the status of the request are shown at the bottom of the display.

Press the Enter key to continue.

- 2 If the test does not complete successfully, the AS/400 Main Menu appears with an error message.

If the test completes successfully, the Prepare PSP Request display appears (PSP means Preventive Service Planning) with the following message:

Test request complete.

- 3 Did the test complete successfully?

Yes **No**

↓

Note the error message and contact your service representative.

This ends the procedure.

- 4 To perform the operating system Preventive Service Planning (PSP) test, press the Enter key.

The Verify Contact Information display appears.

Press the Enter key to accept the information.

- 5 The Select Reporting Option display appears.

Select the *Send service request now* option and press the Enter key.

```

                                Select Reporting Option          System: PORTABLE
Problem ID . . . . . : XXXXXXXXX
Current status . . . . . : READY
Problem . . . . . : Preventive service planning information
requested.

Select one of the following:
1. Send service request now
2. Do not send service request
3. Report service request by voice

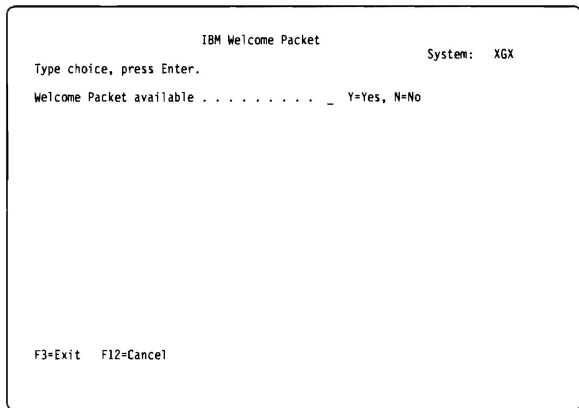
Selection:
1
F3=Exit  F12=Cancel
```

Messages showing the status of the request are shown at the bottom of the display.

6 The Verify Contact Information display appears.
To perform the Licensed Internal Code Preventive Service Planning (PSP) test, press the Enter key.

7 The Select Reporting Option display appears.
Select the *Send service request now* option and press the Enter key.
Messages showing the status of the request are shown at the bottom of the display.

8 The IBM Welcome Packet display appears.



```
IBM Welcome Packet                      System:  XGX
Type choice, press Enter.
Welcome Packet available . . . . . Y=Yes, N=No

F3=Exit  F12=Cancel
```

9 Do you have an AS/400 Welcome Packet?

No	Yes
↓	See the <i>AS/400 Guide to Remote Marketing Support and IBMLink</i> information in the AS/400 welcome packet for instructions on how to enter the information and test the IBMLink, then return here. Go to Chapter 8, "Set the System Values" on page 8-1. This ends the procedure.

10 In the *Welcome Packet available* field, type n and press the Enter key.
Note: To register for IBM remote marketing services, contact your marketing representative.

11 You have completed the test of the electronic customer support remote services.
Press the Enter key.

12 The AS/400 Main Menu appears.

13 Go to Chapter 8, "Set the System Values" on page 8-1.
This ends the procedure.

Chapter 8. Set the System Values

This chapter provides instructions for setting the system time and date, installing applications, and printing the system configuration list.

Set the System Date and Time

- 1 Set the system date. The default value for the system date is *mmddyy*.

mm = month
dd = day
yy = year

Where *mmddyy* appears in this procedure, type the current date. For example, the date for February 7, 1995 would be entered as 020795. The system date format can also be *yymmdd* or *ddmmyy*.

On the command line of the AS/400 Main Menu, type the following and press the Enter key:

```
chgsysval sysval(qdate) value('mmddyy')
```

- 2 Set the system time.

The default value for the system time is *hhmmss*.

hh = hour (1 through 24)
mm = minutes
ss = seconds

Where *hhmmss* appears in this procedure, type the current time. For example, the time 4:30 p.m. (12-hour clock) would be entered as 163000.

On the command line of the AS/400 Main Menu, type the following and press the Enter key:

```
chgsysval sysval(qtime) value('hhmmss')
```

- 3 Change the message queue to Break mode.

On the command line of the AS/400 Main Menu, type the following and press the Enter key:

```
chgmsgq qsysopr *break sev(65)
```

- 4 Press F3 (Exit) until you reach the AS/400 Main Menu.

- 5 Do you need to install licensed programs?

No **Yes**

↓

Go to the *Software Installation* book to install the licensed programs. Return here and continue with the next step in this procedure.

6 Do you need to install application programs?

No

Yes

↓

Use the manual that came with the application programs to install the programs.
When you have completed those instructions, go to Chapter 9, "Save the Information on the System" on page 9-1.

This ends the procedure.

7 Go to Chapter 9, "Save the Information on the System" on page 9-1.

This ends the procedure.

Chapter 9. Save the Information on the System

This chapter provides instructions for creating a system backup tape. If a failure occurs that causes a loss of system information, you should use the tape to load the information back into the system.

Important!

The tape you create in this task becomes your master copy and should be kept in a safe place.

1 Does your system have a tape unit?

Yes

No

↓

You have completed installing the 9401 system unit.

This ends the procedure.

2 Is the system console a twinaxial or ASCII attached personal computer, IBM ThinkPad, or similar device that has Client Access/400 support active?

No

Yes

↓

You cannot save the system with Client Access/400 support active. Use an emulation program that does not require Client Access/400 when you save the system.

3 Do you have a tape cartridge that is labeled as the complete system backup?

No

Yes

↓

This is your backup tape. Put the tape in a safe place.

This ends the procedure.

4 You must create a system backup tape.

This procedure will take approximately .5 to 1.5 hours to complete.

5 Your system has been configured to either the normal device configuration naming convention (*NORMAL) or the System/36 device configuration naming convention (*S/36). The naming convention was specified when you ordered your system.

Do you know the naming convention for your system?

Yes

No

↓

Type the following on the command line of the AS/400 Main Menu and press the Enter key:

`dspsysval qdevnaming`

Note the naming convention for your system.

The Display System Value display appears.

6 Do you know the tape device name?

Yes

No

↓

Type the following on the command line of the AS/400 Main Menu and press the Enter key:

wrkdevd

Find the device description and note the name of the tape unit.

Press F3 (Exit) until you reach the AS/400 Main Menu.

7 Do you have a blank tape cartridge to back up your system?

Yes

No

↓

We recommend that you purchase tape cartridges.

8 Place a label on the blank tape cartridge (that you are using to save the system) with the following information:

SAVT01

9 Insert the tape into the tape unit and close the door on the tape unit.

Notes:

- a. To open the door on the tape unit, press the pushbutton.
- b. The tape unit will wind and rewind the tape to set the tension. This will take approximately three minutes. (You may proceed to the next step while the tape is moving.)

10 On the command line of the AS/400 Main Menu, select the *General system tasks* option and press the Enter key.

The General System Tasks display appears.

11 On the command line of the General System Tasks menu, select the *Device operations* option and press the Enter key.

The Device Operations menu appears.

12 On the command line of the Device Operations menu, select the *Tape* option and press the Enter key.

The Tape menu appears.

13 On the command line of the Tape menu, select the *Initialize a tape* option and press the Enter key.
The Initialize Tape display appears.

Initialize Tape (INZTAP)

System: PORTABLE

Type choices, press Enter.

Tape device	tap01	Name
New volume identifier	savt01	Character value, *NONE
New owner identifier	*BLANK	
Volume identifier	*MOUNTED	Character value, *MOUNTED
Check for active files	*no	*YES, *NO, *FIRST
Tape density	*DEVTYPE	*DEVTYPE, 1600, 3200, 6250
Code	*EBCDIC	*EBCDIC, *ASCII
End of tape option	*REWIND	*REWIND, *UNLOAD
Clear	*NO	*NO, *YES

F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display

Bottom

F24=More keys

14 Type the following information on the Initialize Tape display:

Tape device. **xxxx** (see note)
 New volume identifier . **savt01**

Check for active files ***no**

Note: For xxxx examples, if the naming convention is *S/36 use TC in the *Tape device* field.

If the naming convention is *NORMAL, use TAP01 or TAP02 in the *Tape device* field.

Leave all the other values as they appear on the display.

Press the Enter key.

15 The Tape display appears with the following message:

Volume SAVT01 prepared for operation with owner ID *BLANK

Note: The tape unit rewinds the tape. When the light on the tape unit turns off (approximately one minute) continue with the next step of this procedure.

16 Select the Save option on the Tape display to save the system information on tape. Press the Enter key.

17 The Save display appears.

Note: If *More...* appears on the Save display, page forward to display more options.

Select the *Entire system* option and press the Enter key.

18 The Save the Entire System display appears.

This display explains what happens during the save process.

After reading this information, press the Enter key.

```

Save the Entire System                                SYSTEM: PORTABLE

What this option will do
- End all subsystems
- Save the Licensed Internal Code
- Save the operating system
- Save the security data
- Save the device configuration objects
- Save all user libraries (including libraries for licensed programs)
- Save all documents and folders
- Save all distribution and mail objects
- Start the controlling subsystem

What this option will not do
- Save the contents of job queues, output queues, or data queues that
  exist on the system

Press Enter to continue.

F3=Exit  F12=Cancel

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```

19 The Specify Command Defaults display appears.

```

Specify Command Defaults                            SYSTEM: PORTABLE

Type choices, press Enter.

Tape devices . . . . . TAP01      NAMES

Prompt for commands . . . . . N      Y=Yes, N=No
Check for active files . . . . . N      Y=Yes, N=No

F3=Exit  F12=Cancel

```

Type the following information:

```

Tape devices . . . . . xxxx

-----
-----
-----

Prompt for commands. . . N

Check for active files . N

```

Note: For xxxx examples, if the naming convention is *S/36 use TC in the *Tape device* field.

If the naming convention is *NORMAL, use TAP01 or TAP02 in the *Tape device* field.

Press the Enter key.

20 The Save display appears with the following message:

Save or restore option completed successfully

Note: If a display other than the Save display appears, follow the instructions on that display.

21 Remove the tape from the tape unit and put it in a safe place.

22 Press F3 (Exit) until you reach the AS/400 Main Menu.

This ends the procedure.

Appendix A. Power Off the System

If the system is operating under OS/400, enter the PWRDWNSYS command to power off the system.

If the system is operating under dedicated service tools (DST), power off the system by selecting the *Power off the system* option on the Start a Service Tool display.

If you cannot use these methods, see the "Power Off Using the Power Pushbutton" procedure to power off the system.

Note: If Client Access/400 is running on the system console, a delayed power-off using the PWRDWNSYS command is required. Allow the user enough time to exit Windows and STOPRTR \F. Any Client Access/400 applications that are running must be stopped before the delayed power-off is complete.

Warning: Using the control panel Power pushbutton to power off the system may cause unpredictable results in the data files, and the next IPL will take longer to complete.

Power Off Using the Power Pushbutton

1 Open the control panel cover.

2 The system must be in Manual mode to power off. To select Manual mode, see Appendix B, "Select IPL Type and Mode" on page B-1.

3 Press the Power pushbutton (white) on the control panel.

4 The Data/Function display shows the following:
 ?
(the international power-off symbol) with the ? blinking.

5 Press the Power pushbutton (white) on the control panel again.

Note: To cancel the power-off operation, do not press the white Power pushbutton a second time. Instead, press any other control panel pushbutton.

6 The Power On light blinks as the system begins powering off. The light stops blinking and stays off when power-off is complete.

Does the system power off successfully?

No Yes

↓ You have completed the power-off procedure.

This ends the procedure.

7 Perform the following:

- Press the Up (↑) or Down (↓) pushbutton until function 08 is shown in the Function display.
- Press the Enter pushbutton (blue).
- SRC A1008008 is shown on the Data display.

8 Press the Power pushbutton (white) on the control panel.

The Data/Function display shows the following:

 ?

(the international power-off symbol) with the ? blinking.

9 Press the Power pushbutton (white) on the control panel again.

The system powers off, and the Power On light goes off and remains off.

This ends the procedure.



Appendix B. Select IPL Type and Mode

Use the information in this chapter to select and verify the IPL type and mode. Function 02 allows you to select IPL type and mode. Function 01 allows you to display the last IPL type and mode that was selected. See Figure 2-2 on page 2-4 for control panel locations.

Function 01 - Display Selected IPL Type and Mode

To display the last IPL type and mode that was selected, perform the following procedure:

- 1** Select function 01 by pressing the Up (↑) or Down (↓) pushbutton until 01 is shown in the Function/Data display on the control panel.
- 2** Press Enter on the control panel.
- 3** The last IPL type and mode that was selected is shown in the Function/Data display.
This ends the procedure.

Function 02 - Select IPL Type and Mode

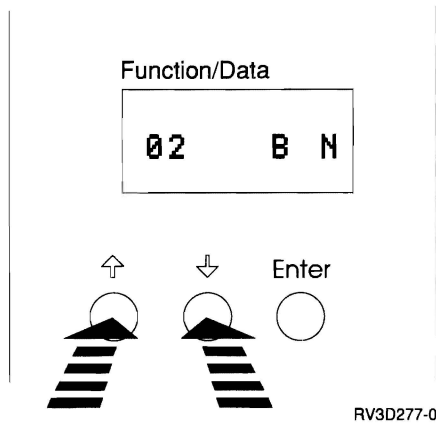
Function 02 allows you to select the IPL type (A, B, C, or D) and IPL mode (M or N).

- A IPL from disk
- B IPL from disk
- C Reserved
- D IPL from tape
- M Manual mode
- N Normal mode

To select the IPL type and mode, perform the following procedure:

Note: Function 02 has eight possible combinations of IPL and mode selections. There are four IPL selections in Normal (N) mode and four IPL selections in Manual (M) mode. Ensure that you are selecting the correct IPL type and mode.

- 1** Select function 02 by pressing the Up (↑) or Down (↓) pushbutton until 02 is shown in the Function/Data display on the control panel.



2 Press Enter on the control panel. The last IPL type and mode that was selected is shown in the Function/Data display.

3 Press either the Up (↑) or Down (↓) pushbutton until the combination of IPL type and mode you want to select is displayed.

4 Press Enter on the control panel to select.

Note: To verify the IPL type and mode selection see “Function 01 - Display Selected IPL Type and Mode” on page B-1.

This ends the procedure.

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AS/400

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Version 3

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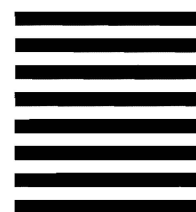
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